

Fig. 1

Fig. 3: Syndecan-2 (human) extracellular domain (J 04621):

ggcaggaggg agggagccag aggaaaagaa gaggaggaga aggaggagga cccggggagg
gaggcgcggc gcgggaggag gaggggcgca gccgcggagc cagtggcccc gcttggacgc
gctgctctcc agataccccc ggagctccag ccgcgcggat cgcgcgctcc cgccgctctg
cccctaaact tctgccgtag ctccctttca agccagcgaa ttatttcctt aaaaccagaa
actgaacctc ggcacgggaa aggagtccgc ggaggagcaa aaccacagca gagcaagaag
agcttcagag agcagccttc ccggagcacc aactccgtgt cgggagtgca gaaaccaaca
agtgagaggg cgccgcgttc ccggggcgca gctgcgggag gcgggagcag ggcagaggag
aggaagcgag cgcccccgag ccccgagccc gagtccccga gcctgagccg caatcgctgc
ggtactctgc tccggattcg tgtgcgcggg ctgcgccgag gctgggcagg aggcttcggt
ttgccctggt tgcaagcagc ggctgggagc agccgggtccc tggggaatat gcggcgcgcg
tggatectgc tcaccttggg cttggtggcc tgcgtgtcgg cggagtcgag agcagagctg
acatctgata aagacatgta ccttgacaac agctccattg aagaagcttc aggagtgtat
cctattgatg acgatgacta cgcttctgcg tctggctcgg gagctgatga ggatgtagag
agtccagagc tgacaacaac tcgaccactt ccaaagatac tgttgactag tgctgctcca
aaagtggaaa ccacgacgct gaatatacag aacaagatac ctgctcagac aaagtcacct
gaagaaactg ataaagagaa agttcacctc tctgactcag aaaggaaaat ggacccagcc
gaagaggata caaatgtgta tactgagaaa cactcagaca gtctgtttaa acggacagaa

protein sequence:

GRREGARGKEEEEKEEDPGREARRGRRRGAAAEPVAPLGRAALQ
IPPELQPRGSRAPALPLNFCRSSLSSQRIYSLKPETEPRHGKGVGGAKPQOSKKSF
REQPSRSTNSVSGVQKPTSERAPSRGAAAGGSRRRRRKRAPPSPEPESPSLSRNRC
GTLRLIRVRGLAERWAGGFVLPWLQAAAGSSRSLGNMRRRAWILLTLGLVACVSAESRA
ELTSDKMYLDNSSIIEASGVYPIDDDYASASGSGADEDVESPELTTRPLPKILLT
SAAPKVETTTLNINQNKIPAQTKSPEETDKEKVHLSDSERKMDPAEEDTNVYTEKHS
LFRTE

reference:

ACCESSION J04621
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.
ACCESSION J04621
NID g184428
KEYWORDS core protein; heparan sulfate proteoglycan.
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3414)
AUTHORS Marynen, P., Zhang, J., Cassiman, J. J., Van den Berghe, H. and David, G.
TITLE Partial primary structure of the 48- and 90-kilodalton core
proteins of cell surface-associated heparan sulfate proteoglycans
of lung fibroblasts. Prediction of an integral membrane domain and
evidence for multiple distinct core proteins at the cell surface of
human lung fibroblasts
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)

0944593750

Country	Year	Value	Unit
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Algeria	1972	1.2	1000
Algeria	1973	1.2	1000
Algeria	1974	1.2	1000
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Algeria	2059	1.2	1000

Reference:

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ACCESSION      M84910
LOCUS          CHKSNDPCPRO      1372 bp      mRNA                      VRT          29-NOV-1995
DEFINITION     Chicken syndecan-3 proteoglycan mRNA, complete cds.
ACCESSION      M84910
NID            g1017461
KEYWORDS       syndecan-3 proteoglycan.
SOURCE         Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA to
               mRNA.
ORGANISM       Gallus gallus
               Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
               Vertebrata; Archosauria; Aves; Neognathae; Galliformes;
               Phasianidae; Phasianinae; Gallus.
REFERENCE      1 (bases 1 to 1372)
AUTHORS        Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE          Syndecan 3: a member of the syndecan family of
               membrane-intercalated proteoglycans that is expressed in high
               amounts at the onset of chicken limb cartilage differentiation
               Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)
JOURNAL        92228766
MEDLINE
REFERENCE      2 (bases 1 to 1372)
AUTHORS        Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE          Characterization of chicken syndecan-3 as a heparan sulfate
               proteoglycan and its expression during embryogenesis
               Dev. Biol. 168 (2), 438-451 (1995)
JOURNAL

```


Fig. 6: Glypican-1 (rat) extracellular Domain:

atggag

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ctccgggccc gaggetggtg gctgetgtgc gcgggccgccc cgctagtcgc ctgcgcccgc
ggggaccccc ccagcaagag ccggagctgc agcgaagtcc gccagatcta cggggctaag
ggcttttagcc tgagcgacgt gccccaggca gagatctcgg gagagcacct gcggatctgc
ccccagggct acacctgctg caccagttag atggaggaga acctggccaa ccacagccgg
atggagctgg agaccgcact ccacgacagc agccgtgccc tgcaggctac actggccacc
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ctggccgagt tctgggcacg gctgctggag cgtctcttca agcagctgca cccccagctt
ctgctgcccg atgactatct ggactgcctg ggcaagcagg cagaggcact gcggccgctt
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cggtacctac ctgaggtgat gggatgatgg ctggccaacc agatcaacaa ccctgaagtg
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atgaccaacc gtttacgtgg cgcctacggg ggcaatgatg tggacttcca ggatgccagt
gatgacggca gtggctccgg cagcgggtgg ggatgccagc atgacgcctg tggccggagg
gtcagcaaga agagctccag ctcccggacc cccttgaccc atgccctccc cggcttgtca
gaacaggagg gacagaagac ctcg
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Protein sequence:

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MELRARGWLLCAAAALVACARGDPASKSRSCSEVRQIYGAKGF
SLSDVPQAEISGEHLRIPCQGYTCCTSEMEENLANHSRMELETALHDSSRALQATLAT
QLHGIDDFQRLNDSERTLQDAFPGAFGDLYTQNTAFRDLYAELRLYYRGANLHLE
ETLAEFWARLLERLFKQLHPQLLLPDDYLDCLGKQAEALRPFGDAPRELRLRATRAFV
AARSFVQGLGVASDVVRKVAQVPLAPECRAVMKLVYCAHCRGVPGARPCPDYCRNVL
KGCLANQADLDAEWRNLLDSMVLITDKFWGPGSAENVIGSVHMLAEAINALQDNKDT
LTAKVIQCGNPKVNPHGSGPEEKRRRGKLALQEKSSSTGTLEKLVEAKAQLRDIQDY
WISLPGTLCSEKMAMSPASDDRCWNGISKGRYLPEVMGDGLANQINNPEVEVDITKPD
MTIRQQIMQLKIMTNRLRGAYGGNDVDFQDASDDGSGSGSGGGCPDDACGRRVSKKSS
SSRTPLTHALPGLSEQEQKTS
```

Reference:

ACCESSION L34067
NID g506416
KEYWORDS glypican.
SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 1737)
AUTHORS Litwack, E.D., Stipp, C.S., Kumbasar, A. and Lander, A.D.
TITLE Neuronal expression of glypican, a cell-surface
glycosylphosphatidylinositol-anchored heparan sulfate proteoglycan,
in the adult rat nervous system
JOURNAL J. Neurosci. 14, 3713-3724 (1994)

Fig.7 : Syndecan-1 (rat) transmembrane domain: M81785

gtgct gggaggtgtc attgctggag gcctggtggg
cctcatcttt gctgtgtgcc tgggtggcttt catgctatac

Reference:

ACCESSION M81785
LOCUS RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus syndecan mRNA, complete cds.
ACCESSION M81785
NID g207140
KEYWORDS syndecan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2396)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

882050 3463450

Table 1. Characteristics of the study population

Characteristic	Number of patients	Percentage
Age (years)		
Mean	67.2	
Range	45-85	
Gender		
Male	10	100
Female	0	0
Duration of disease (years)		
Mean	10.5	
Range	2-25	
Previous treatment		
None	10	100
With	0	0
Family history of disease		
Yes	10	100
No	0	0
Associated diseases		
Diabetes	10	100
Hypertension	10	100
Hyperlipidemia	10	100
Obesity	10	100
Smoking		
Yes	10	100
No	0	0
Alcohol consumption		
Yes	10	100
No	0	0
Medication		
Insulin	10	100
Antihypertensives	10	100
Lipid-lowering agents	10	100
Diuretics	10	100
Statins	10	100
Aspirin	10	100
Other	10	100

protein sequence:
VLAAVIAGGVIGFLFAIFLILLV

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ACCESSION      J04621
LOCUS          HUMHSPGC      3414 bp      mRNA      PRI      08-NOV-1994
DEFINITION     Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.
ACCESSION      J04621
NID            gl84428
KEYWORDS        core protein; heparan sulfate proteoglycan.
SOURCE          Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.
ORGANISM        Homo sapiens
                Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
                Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE       1 (bases 1 to 3414)
AUTHORS         Marynen,P., Zhang,J., Cassiman,J.J., Van den Berghe,H. and David,G.
TITLE           Partial primary structure of the 48- and 90-kilodalton core
                proteins of cell surface-associated heparan sulfate proteoglycans
                of lung fibroblasts. Prediction of an integral membrane domain and
                evidence for multiple distinct core proteins at the cell surface of
                human lung fibroblasts
JOURNAL         J. Biol. Chem. 264 (12), 7017-7024 (1989)

```


Fig. 9 : Synd-3 (N-syndecan) chicken Transmembrane domain

gtgttgatagctgtgattgtcggcggtgtggtgggagccctctttgctgccttccttgtca
tgctgctcatctac

Reference:

ACCESSION M84910
LOCUS CHKSNDPCPRO 1372 bp mRNA VRT 29-NOV-1995
DEFINITION Chicken syndecan-3 proteoglycan mRNA, complete cds.
ACCESSION M84910
NID g1017461
KEYWORDS syndecan-3 proteoglycan.
SOURCE Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA to mRNA.
ORGANISM Gallus gallus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Archosauria; Aves; Neognathae; Galliformes;
Phasianidae; Phasianinae; Gallus.
REFERENCE 1 (bases 1 to 1372)
AUTHORS Gould, S.E., Upholt, W.B. and Kosher, R.A.
TITLE Syndecan 3: a member of the syndecan family of
membrane-intercalated proteoglycans that is expressed in high
amounts at the onset of chicken limb cartilage differentiation
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)
MEDLINE 92228766
REFERENCE 2 (bases 1 to 1372)
AUTHORS Gould, S.E., Upholt, W.B. and Kosher, R.A.
TITLE Characterization of chicken syndecan-3 as a heparan sulfate
proteoglycan and its expression during embryogenesis
JOURNAL Dev. Biol. 168 (2), 438-451 (1995)

0445659160

Figure 10 : Syndecan-4 transmembrane domain from rat: M81786

gtcttggc agctctgatt gtgggcggcg tagtgggcat cctcttcgcc gttttcctga
tcctgctgct ggtgtac

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

01416-10903

Fig. // : Glypican-1 (rat) GPI-Transmembrane Domain:

**gccgcc actcgcccag agcctcacta cttctttctg
ctcttcctgt tcaccttggt ccttgctgca gccaggccca ggtggcggtg actgccc**

protein sequence:

ATRPEPHYFLLFLFTLVLAAARPRWR

Reference:

ACCESSION L34067

NID g506416

KEYWORDS glypican.

SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.

ORGANISM Rattus norvegicus

Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;

Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;

Murinae; Rattus.

REFERENCE 1 (bases 1 to 1737)

AUTHORS Litwack,E.D., Stipp,C.S., Kumbasar,A. and Lander,A.D.

TITLE Neuronal expression of glypican, a cell-surface glycosylphosphatidylinositol-anchored heparan sulfate proteoglycan, in the adult rat nervous system

JOURNAL J. Neurosci. 14, 3713-3724 (1994)

09445916-090999

1. **Background**
 2. **Methods**
 3. **Results**
 4. **Conclusions**
 5. **References**
 6. **Abbreviations**
 7. **Declarations**
 8. **Authors' contributions**
 9. **Competing interests**
 10. **Consent to publish**
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Reference:

LOCUS	HUMHSPG2B	14327 bp	mRNA	PRI	08-NOV-1994
DEFINITION	Human heparan sulfate proteoglycan (HSPG2) mRNA, complete cds.				
ACCESSION	M85289				
NID	g184426				
KEYWORDS	HSPG2 gene; heparan sulfate proteoglycan.				
SOURCE	Homo sapiens skin; colon cDNA to mRNA.				
ORGANISM	Homo sapiens				
	Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata; Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
REFERENCE	1 (bases 1 to 14327)				
AUTHORS	Dodge,G.R., Kovalszky,I., Chu,M.L., Hassell,J.R., McBride,O.W., Yi,H.F. and Iozzo,R.V.				
TITLE	Heparan sulfate proteoglycan of human colon: partial molecular cloning, cellular expression, and mapping of the gene (HSPG2) to the short arm of human chromosome 1				
JOURNAL	Genomics 10 (3), 673-680 (1991)				
MEDLINE	91365376				
REFERENCE	2 (bases 1 to 14327)				
AUTHORS	Murdoch,A.D., Dodge,G.R., Cohen,I., Tuan,R.S. and Iozzo,R.V.				
TITLE	Primary structure of the human heparan sulfate proteoglycan from basement membrane (HSPG2/perlecan). A chimeric molecule with multiple domains homologous to the low density lipoprotein receptor, laminin, neural cell adhesion molecules, and epidermal growth factor				
JOURNAL	J. Biol. Chem. 267 (12), 8544-8557 (1992)				

Figure 13 : Synd^{an-4} cytoplasmic domain from rat: M81786

**Cgc atgaagaaga aggatgaagg cagttacgac ttgggcaaga aacccatcta caaaaaagcc
cccaccaacg agttctacgc atga**

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

0544546-090999

0914515-090909
090909 " 090909"

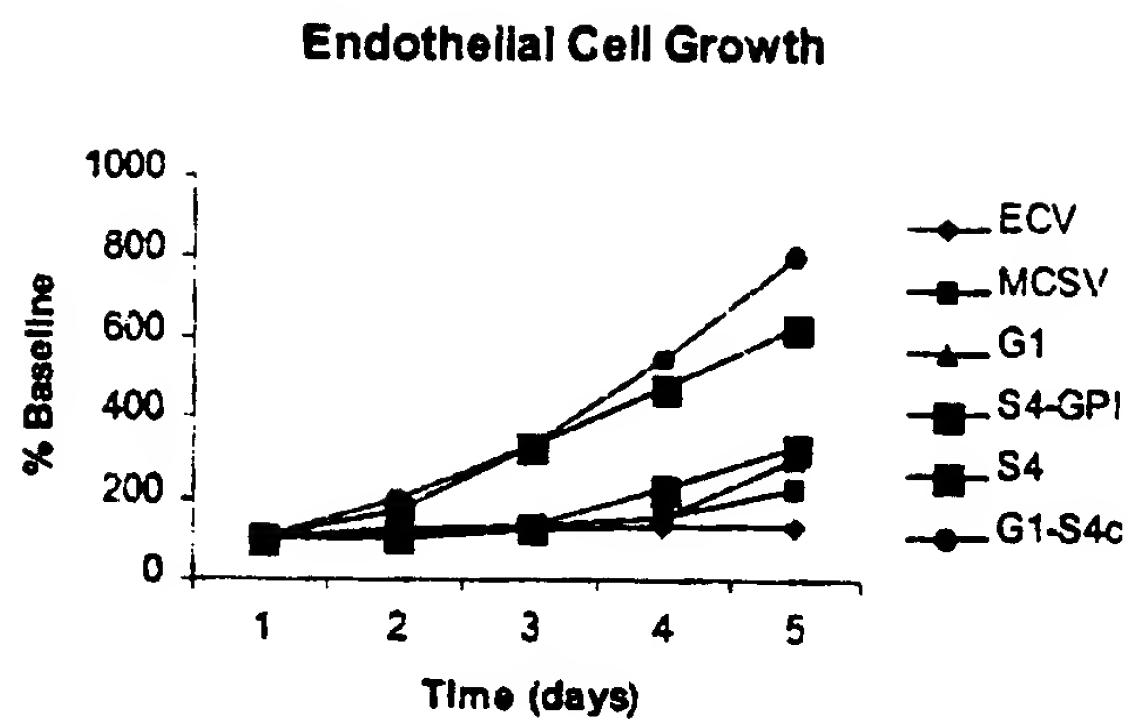


Fig. 14

Fig. 15 A



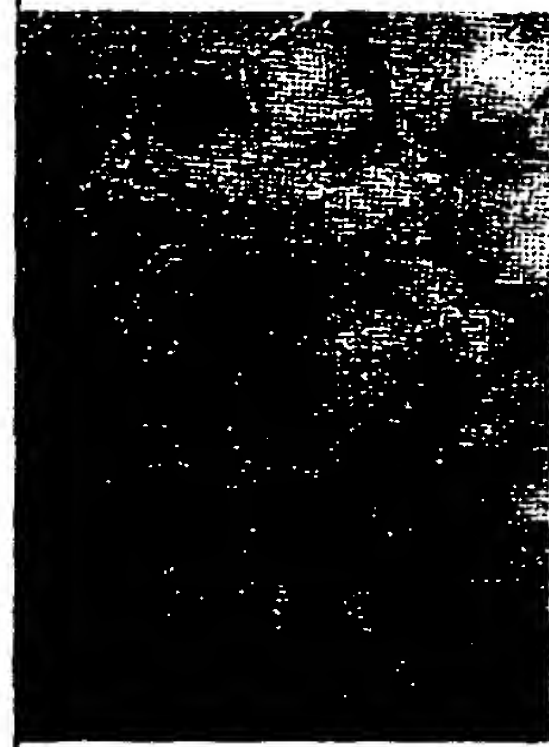
MSCV

Fig. 15 B



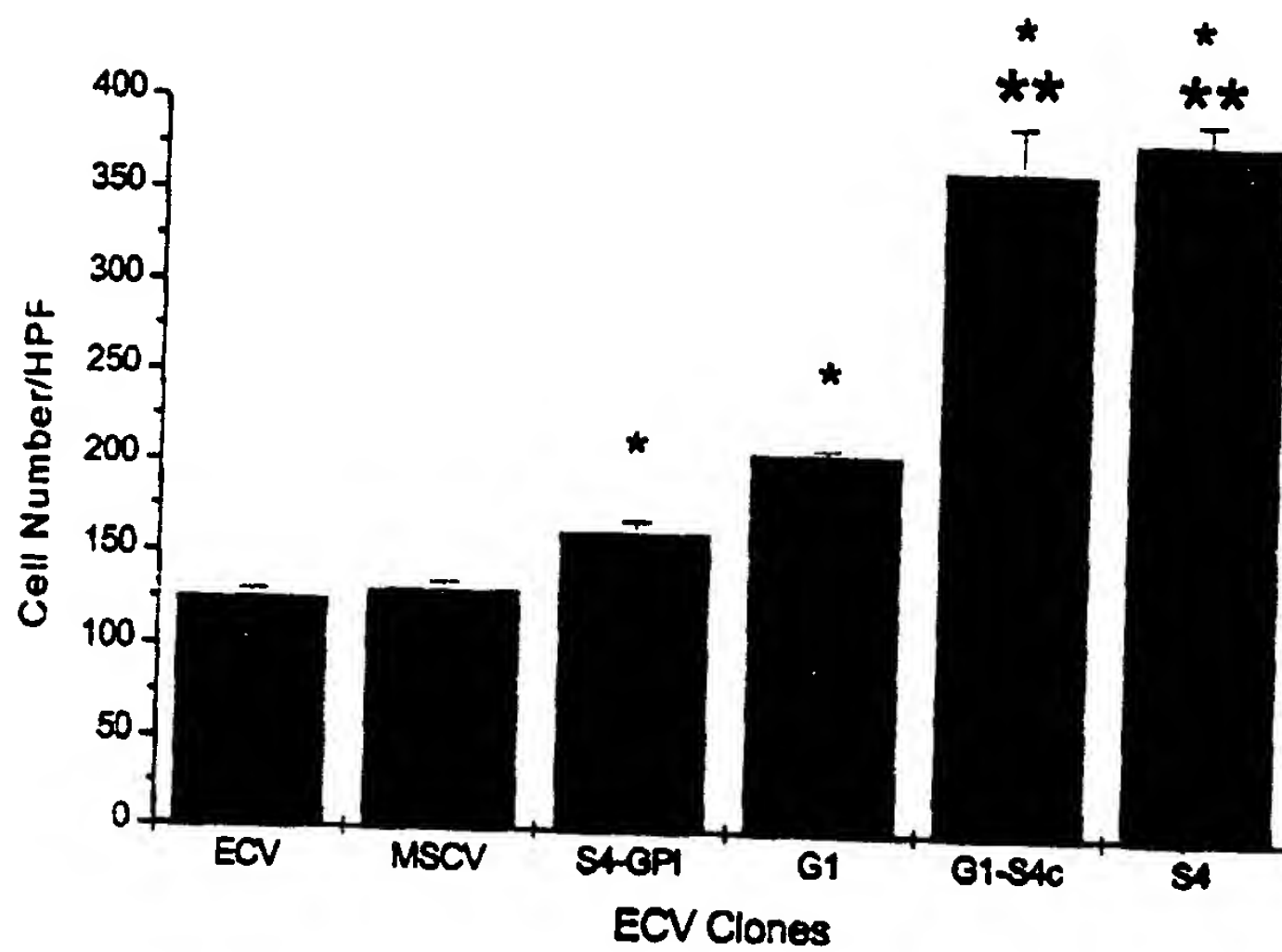
S4

Fig. 15 C



G₁-S4c

Fig. 16



. Boyden chamber assays of migration towards bFGF (25 ng/ml);

* $p < 0.05$ vs. ECV

** $p < 0.05$ vs. S4-GPI

Fig. 17A

Fig. 17C

Fig. 17E

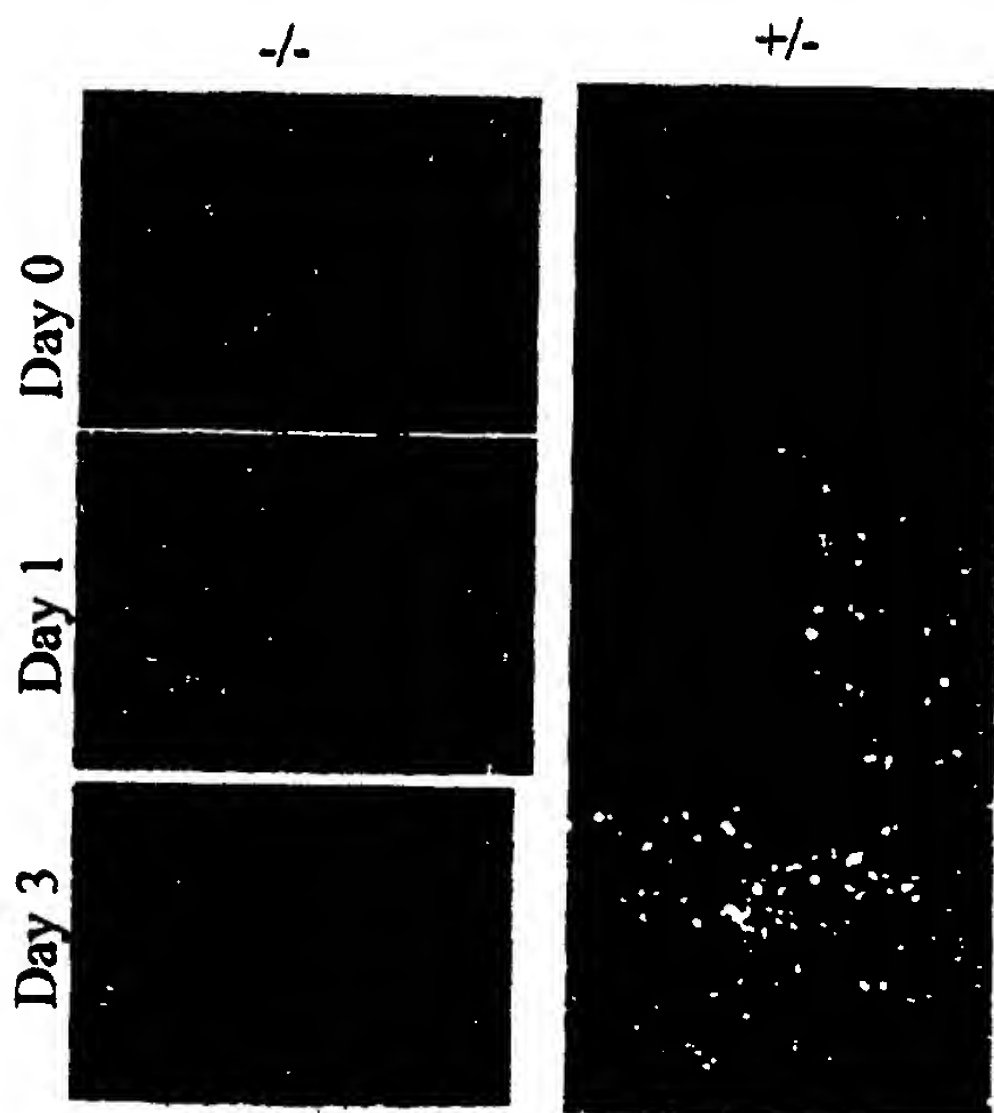


Fig. 17B

Fig. 17D

Fig. 17F

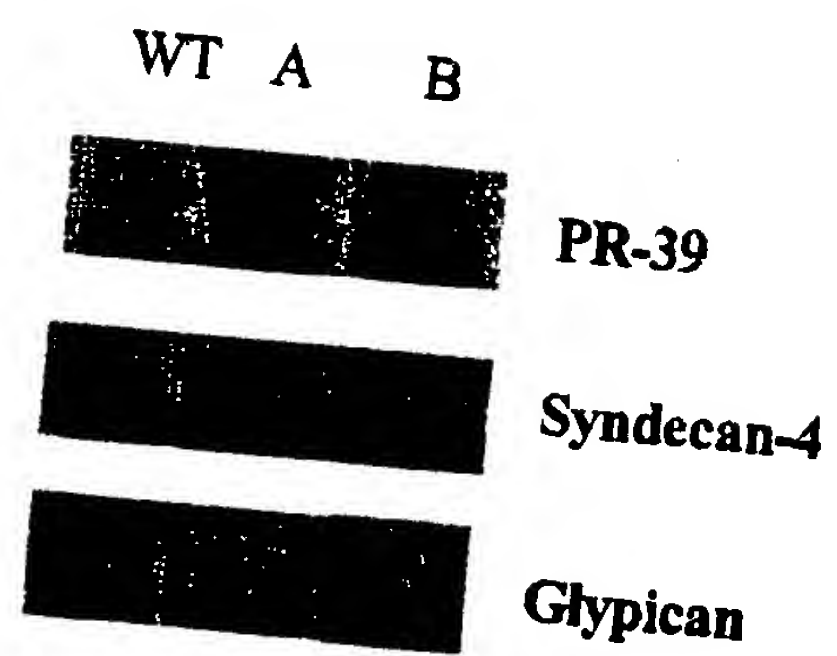


Fig. 18

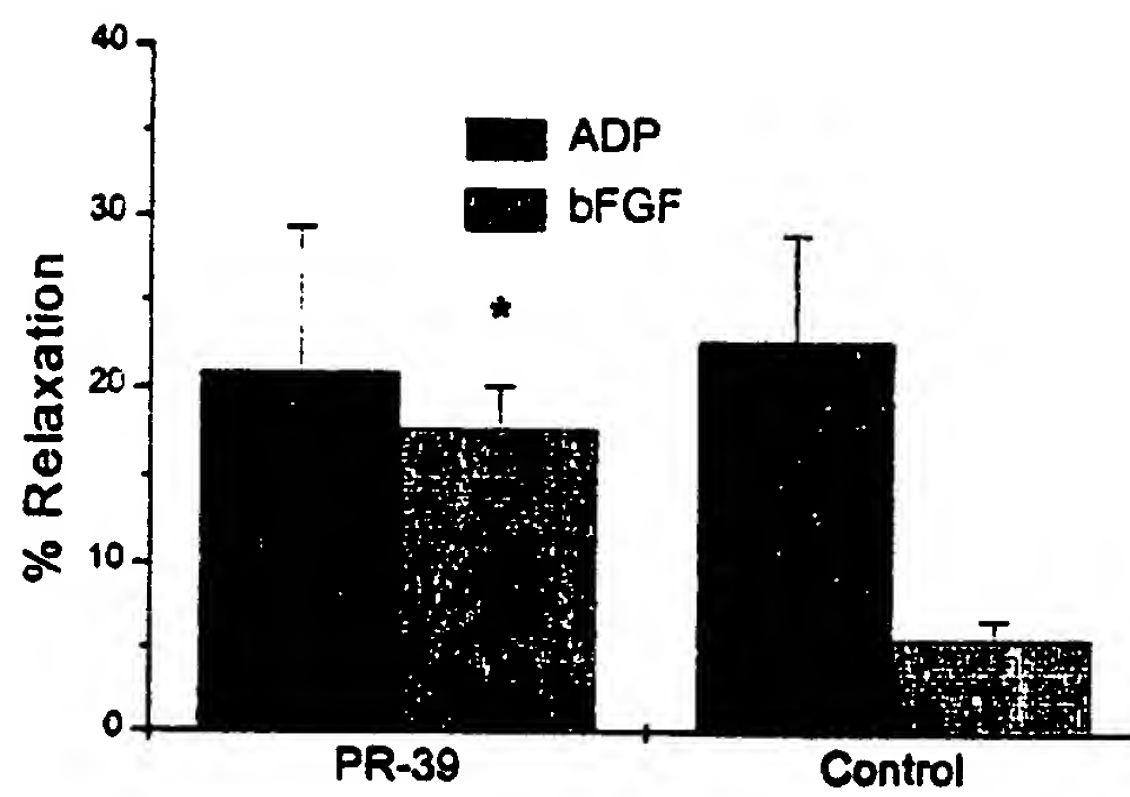


Fig. 19